

## ABSTRACT

Method and device for producing a metallic coating  
5 on an object emerging from a bath of molten metal.

The present invention relates to a method of producing a metallic  
10 coating on an object (4) emerging from a bath of molten metal  
(5). The object can for example be a wire or a plate. A magnetic  
field is created near the point of exit of the object. The object  
leaves the bath of molten metal via an exit channel (3)  
15 containing a meniscus of the said bath of molten metal. The  
thickness of the metallic coating is controlled as a function of  
the second derivative of the curve of the meniscus (6) and of a  
capillary number  $Ca$  representing the ratio between the viscous  
forces of the molten metal and the forces of surface tension at  
the surface of the molten metal.

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See Figure 1